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Claims

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- 1. A method for inactivating a microbiological spore including the steps of subjecting a microbiological spore to an ultra high pressure treatment and absorbing oxygen from an environment about the spore to at least limit the consumption of oxygen by the spore.
- 2. A method according to claim 1 wherein oxygen is absorbed from an environment about the spore by an oxygen scavenger.
- 3. A method according to claim 2 wherein the oxygen scavenger is selected from the group consisting of (i) an oxidisable compound and a transition metal catalyst, (ii) an ethylenically unsaturated hydrocarbon and a transition metal catalyst, (iii) an ascorbate, (iv) an isoascorbate, (v) a sulfite, (vi) an ascorbate and a transition metal catalyst, (vii) a reducible organic compound such as a quinone, a photoreducible dye, or a carbonyl compound, (viii) a tannin, (ix) biological systems such as enzymes and (x) rusting of finely divided iron particles.
 - 4. A method according to claim 2 wherein oxygen is absorbed before the ultra high pressure treatment.
 - 5. A method according to 1 wherein the spore is within or on the surface of a product.
 - 6. A method according to claim 5 wherein the product has a pH less than 4.6.
- 7. A method according to claim 6 wherein the environment about the spore is an atmosphere defined by a package for the product.
 - 8. A method according to claim 7 wherein the package has an oxygen scavenger.
- 9. A method according to claim 1 wherein the microbiological spore is partially germinated.
 - 10. A method according to claim 1 wherein the ultra high pressure treatment is in the range of 300MPa to 1000MPa.

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- 11. A method according to claim 5 wherein the product is heated before the ultra high pressure treatment.
- 12. A method for producing a packaged food product including the steps of adding a food product to a package and subjecting the food product to an ultra-high pressure treatment, wherein the food product is in an oxygen-scavenging environment either before or after the ultra-high pressure treatment, said ultra-high pressure treatment and said oxygen scavenging environment being selected for inactivation of a microbiological spore in the food product.
- 13. In a process for manufacture of a food product, the steps of subjecting a food to an ultra-high pressure treatment and absorbing oxygen from an environment about the food to provide conditions for limiting the consumption of oxygen by a microbiological spore in the environment.
 - 14. A food product manufactured by the process of claim 13.
- 15. A use of an oxygen scavenger for inactivating a microbiological spore in an ultra-high pressure treatment of a food product.
 - 16. An ultra-high pressure treatment adapted for inactivating a microbiological spore in a food product, the treatment including the step of absorbing oxygen from an environment about the food product to provide conditions for limiting the consumption of oxygen by a microbiological spore in the environment.
 - 17. A method for achieving commercial sterility of a product including the steps of subjecting a product to an ultra-high pressure treatment and absorbing oxygen from an environment about the product to provide conditions for limiting the consumption of oxygen by a microbiological spore in the environment.
 - 18. A product produced by the method of claim 17.